



January Meeting

1/13/2021

# AGENDA

1. Announcements
2. Esri Update
3. Facilitated Discussion

\*\*\*\* Please mute phones!! \*\*\*\*

# ANNOUNCEMENTS

- GeoNet Updates
- GIS-T 2021 Going Virtual

# Esri Updates

Nathan Easley

# Facilitated Discussion

## Audience Polling

# Open Discussion

2021 Vision

# Upcoming Meetings / Contacts

Wednesday February 10th, 1:30-3pm

## Contact Info:

Erin Lesh [erialesh@ncdot.gov](mailto:erialesh@ncdot.gov)

Patrick Whiteford [pwhiteford@azdot.gov](mailto:pwhiteford@azdot.gov)



**Product Team Update  
RHUG meeting 1/13/21  
Nathan Easley**



## Capabilities currently under development

- **External System Integration**
  - External event configuration
  - Relocate Events
  - Export Network

## Support Incidents/Defects

- **BUG-000135025** - Cartographic Realignment created of concurrent routes created extra vertices (currently investigating)

## Potential patch issues

- 10.8.1
- **BUG-000132924 GP: Calculate Route Concurrencies producing incorrect results in lollipop routes with partial concurrencies in the loop portion**
- **BUG-000135025 Cartographic Realignment created of concurrent routes created extra vertices**
- **BUG-000136271 String Null value appears for non-nullable field with an associated attribute domain while editing from Event editor**
  
- 10.7.1/10.6.1
- **The issues above in 10.8.1**
- **Multipart event is not created when the calibration difference on the ends of the gap is 0**
- **Overlapping events created by cover behavior in certain concurrent route scenarios**
- **BUG-000130449 Reassigning whole multi-part physically gapped route where the route centerline is multi-part and parts are not in the same order as route calibration will result in a non-monotonic route**
- **BUG-000127795 The Generate Events geoprocessing tool fails with multiple errors when run on LRS layers with Conflict Prevention enabled**
- **BUG-000128075 Users with the Viewer role can make edits in the Esri Roads and Highways Event Editor web application**

## Other Announcements

- Holistic Testing at GIS-T



**esri**

THE  
SCIENCE  
OF  
WHERE

**Q1. Does your agency have a business need for LRS functionality in ArcGIS Online?**

Answers	Results	%
A Yes	45/102	44
B No	0/102	0
No Answer	57/102	56

**Q2. Choose some interested ArcGIS Online use cases: (select all that apply)**

Answers	Results	%
A Route and Measure Identify	41/102	40
B Referent offset geocoder	13/102	13
C Referencing data	31/102	30
D Field survey/ asset management	34/102	33
E Vehicle routing	22/102	22
F Event management	33/102	32
G Temporal functionality	28/102	27
H Integration of XY and Route Measures	39/102	38
No Answer	53/102	52

**Q3. Please list any other ArcGIS Online functionality you would like to incorporate**

Answers	Results	%
Potentially Yes but unknown at this time. Still trying to wrap our heads around having to move to ArcGIS Pro.	1/102	1
Vehicle routing in reference to roadway inventory/ features/data, event management for emergency evacuations	1/102	1
The issue at hand for me is Hosted Feature capabilities vs portal capabilities. It seems to me the direction for DOT's is to utilize portals rather than AGO Hosting.	1/102	1
Exposing DOT LRS outside of the DOT	1/102	1
Can we discuss some examples of what some states want to do with LRS in AGOL?	1/102	1
make route event layer functionality similar to displaying XY data	1/102	1
more labelling capabilities	1/102	1
Integrate field data collection tools and workflows with LRS	1/102	1
No Answer	94/102	92

**Q1. Do you still need Esri bugs backpatched to 10.6.1?**

Answers	Results	%
A Yes	11/121	9
B No	35/121	29
No Answer	75/121	62

**Q2. If Yes, What bugs need to be addressed for 10.6.1? (select all that apply)**

Answers	Results	%
A Bug #1: BUG-000135025 Cartographic Realignment created of concurrent routes created extra vertices	8/121	7
B Bug #2: BUG-000136271 String Null value appears for non-nullable field with an associated attribute domain while editing from Event editor	6/121	5
C Bug #3: BUG-000132924 GP: Calculate Route Concurrencies producing incorrect results in lollipop routes with partial concurrencies in the loop portion	7/121	6
D Bug #4: BUG-000130449 Reassigning whole multi-part physically gapped route where the route centerline is multi-part and parts are not in the same order as route calibration will result in a non-monotonic route	7/121	6
E Bug #5: BUG-000127795 The Generate Events geoprocessing tool fails with multiple errors when run on LRS layers with Conflict Prevention enabled	7/121	6
F Bug #6: BUG-000128075 Users with the Viewer role can make edits in the Esri Roads and Highways Event Editor web application	7/121	6
G Bug #7: Multi-part event is not created when the calibration difference on the ends of the gap is 0	3/121	2
H Bug #8: Overlapping events created by cover behavior in certain concurrent route scenarios	8/121	7
No Answer	108/121	89

**Q3. Are there any other bugs or functionality that needs to be backpatched to 10.6.1?**

Answers	Results	%
Correctly re-calibrating measures along events when using Euclidean distance?	1/121	1
No Answer	120/121	99

**Q1. Would you participate in a virtual ArcPro Roads and Highways testing?**

Answers	Results	%
A Yes	33/107	31
B No	5/107	5
C Tell me more	11/107	10
No Answer	58/107	54



**Q1. What training would you like to see provided for R&H? (select all that apply)**

Answers	Results	Is
A LRS Theory Basics	45/119	30
B LRS Editing	54/119	45
C Event Editing	56/119	47
D Federal Reporting	36/119	30
No Answer	48/119	40

**Q2. In any additional training you'd like to see?**

Answers	Results	Is
Tips and Tricks for Attribute Sets: Advanced RH DB Management (How to leverage the edit logs and how the Routes meet the Centerlines through the Centerline Sequence Table)	1/119	1
External event theory and best practice	1/119	1
Training on best practices for leveraging a route network/events for external customers.	1/119	1
Administration	1/119	1
Why LRS?	1/119	1
LRS Best practices	1/119	1
Data Quality/Data checks	1/119	1
LRS Editing in ArcGIS Pro - Additional training/workshop: Transitioning from Desktop to Pro including external integrations.	1/119	1
Training on understanding the event behaviors better	1/119	1
versioning, temporal data editing	1/119	1
Basic concepts of R&H tools	1/119	1
No Answer	108/119	91

Polygon	Question	Answer Ch	Answers	Results	Percentages
	1 Does your agency have a business need to maintain LRS enabled polygons?	A	Yes	39/110	35%
		B	No	10/110	9%
		C	No Answer	61/110	55%
	2 Choose some interested polygon options:	A	Parking Lots	15/110	14%
		B	Wetlands	12/110	11%
		C	Reforestation	2/110	2%
		D	Land Ownership	25/110	23%
		E	Parcel boundaries	16/110	15%
		F	Right of Way	34/110	31%
		G	No Answer	72/110	65%
	3 Please list any other LRS polygons you may want to maintain.	A	No Answer	88/110	80%
		B	Other	22/110	20%
	Bridges, landscaping, material piles sand/salt				
	Runaway Truck Ramps, Chain-up areas, Ports of Entry				
	Rest Areas, mowing areas, retention ponds, landscaping				
	polygons that group together intersection points to create interchanges/complex intersections designation				
	Intersection core area				
	Urban Area Boundaries, City Boundaries				
	Complex intersections				
	Some of these polygons can be managed through parcel fabric.				
	Jurisdictional boundaries, construction project footprints, asset damage				
	Urban areas, flooding				
	Interchange Polygon needed for MIRE; Intersection Boxes; Workzones or Lane Closures.				
	Landslides				
	Jurisdictions / Districts / Regions , Maintenance Boundaries				
	urbanized areas				
	Individual Lane (Pavement type/pavement condition) data, Districts, Counties				
	Municipalities				
	Jurisdictions				
	Intersections				
	Maintenance responsibility. For example, DDOT owns the roads, but another agency helps us remove snow. We split up the area and it would be good to have maintenance areas sync up to our LRS in a meaningful way.				
	Other legal boundaries such as City and Urban.				
	Pavement Extents				
	Population Boundaries, MPOs, Regions, Jurisdictional boundaries				

from Patrick Whiteford to everyone: 12:13 PM

<https://azdot.gov/planning/transportation-analysis>

from Ryan Koschatzky to everyone: 12:33 PM

RHUG

<https://community.esri.com/t5/roads-and-highways-user-group/gh-p/roads-and-highways-user-group-rhug>

R&H Nathan

<https://community.esri.com/t5/arcgis-roads-and-highways/ct-p/arcgis-roads-and-highways>

<https://community.esri.com/t5/transportation/ct-p/transportation>

Not sure about this pages intent

<https://community.esri.com/t5/roads-and-highways/ct-p/roads-and-highways>

from Nicole Hanson to everyone: 12:54 PM

how many will you limit the seats to?

from Benedikt Gustafsson to everyone: 12:55 PM

Are there some notes on the coming updates to external system intergration and event relocation?

from Jim Mitchell to everyone: 12:56 PM

Has anyone else had problems with the Pro 2.7 updat "reaking" Portal user authentication?

from Jim Mitchell to everyone: 12:56 PM

"breaking"

from Erin Lesh to everyone: 12:57 PM

Jim, do you want me to unmute you?

from Jim Mitchell to everyone: 12:57 PM

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from Kyle Gonterwitz to everyone: 12:58 PM

ive run into a number of portal issues yes

from Kyle Gonterwitz to everyone: 12:58 PM

theres are few ways to do portal right and a lot more ways to do it wrong

from Erin Lesh to everyone: 12:58 PM

You're unmuted too Kyle

from Nicole Hanson to everyone: 1:03 PM

Yes ITD

from Ryan Koschatzky to everyone: 1:06 PM

For Bug 1, it was NC, it is not adding a vertex. It is not removing a vertex on one for the coroutes but would removed from Centerline and other Routes correctly to match the carto realignment

from Jesse Pearson to everyone: 1:09 PM

Nathan - Will Bug#8 be fixed at 10.7.1 patch?

from Kyle Gonterwitz to everyone: 1:09 PM

so portal users assigned as view privileged users shouldnt be able to edit in event editor?

from Kyle Gonterwitz to everyone: 1:09 PM

thats a bug?

from Nathan Easley to everyone: 1:10 PM

Jessie, yes it would be fixed in a 10.7.1 patch

from Nathan Easley to everyone: 1:10 PM

Kyle, yes the correct. If you're a viewer user type, you should be able to view and query in Event Editor, but not make any edits.

from Kyle Gonterwitz to everyone: 1:11 PM

OK Thanks good to know

from Nicole Hanson to everyone: 1:13 PM

I wouldn't exclude the middle ones either (the ones who are 7s)

from Amit Hazra (esri) to everyone: 1:15 PM

@Jim - Please have your team check on whether any specific recent changes have been made to the underlying JavaScript files used to login to your SAML provider. Could there be a Bad JS method (ex. addEventListener for example) in place on your sign-in redirection page? We have seen this at other customer sites.

from INDOT Kevin to everyone: 1:16 PM

To the best of our knowledge, we don't have that event split issue with 10.5.1. Nathan. perhaps it reared its head in 10.6+

from Amit Hazra (esri) to everyone: 1:22 PM

For training, another topic (not listed in the poll) that we've found quite popular seems to be on Administering enterprise LRS...

from Robert Oliver to everyone: 1:29 PM

LRS basics and benefits for business managers and executives would be great.

from Kevin Hunt to everyone: 1:33 PM

I would answer "Not sure" on this one. I am not aware of a use case in New York right now. ROW would be a maybe.

from Marisa Mailand to everyone: 1:35 PM

"Not sure" for Montana too

from Kevin Hunt to everyone: 1:37 PM

Thanks for bringin this clarification up Jim. I was imagining a set of LRS fields on the polygon feature. Route ID, From M and To M

from INDOT Kevin to everyone: 1:38 PM

I believe that we are already able to define events based on overlapping polygons. if you can do that you should be able to do it by relationship to the authoratative polygon.

from Nicole Hanson to everyone: 1:42 PM

For the polygon question - i added Landslides - as it would be great to manage those within R&H vs a seperate database

from Nicole Hanson to everyone: 1:43 PM

OOO or Rockfalls...

from Erin Lesh to everyone: 1:44 PM

Rockfall? haha

from Nicole Hanson to everyone: 1:44 PM

LOL yup, but they screw up the roads.

from Nicole Hanson to everyone: 1:44 PM

Totally Rockfalls we have them almost as frequently as landslides

from Kevin Hunt to everyone: 1:48 PM

I'm hitting 'yes' here even though we rely more on ArcGIS Enterprise than ArcGIS Online for Collector/Field Maps workflows. Assume this is referring to both.

from Patrick Whiteford to everyone: 1:48 PM

Absolutely Kevin

from Kyle Gonterwitz to everyone: 1:49 PM

im with Kevin

from Kyle Gonterwitz to everyone: 1:51 PM

integration of collector hosted feature services with the ALRS database

from Nicole Hanson to everyone: 1:51 PM

Ditto to Kyle

from Kyle Gonterwitz to everyone: 1:54 PM

thanks Patrick & Erin!

from Kyle Gonterwitz to everyone: 1:54 PM  
and Nathan!

from Mark Sarmiento to everyone: 1:54 PM  
well done!

from Sarah Wray to everyone: 1:54 PM  
Happy New Year!!

from Jean Hannon to everyone: 1:54 PM  
thank you.

from Shaun Perfect to everyone: 1:54 PM  
Thanks!

from Kyle Gonterwitz to everyone: 1:54 PM  
and Sarah!

from Sam Coldiron to everyone: 1:54 PM  
Thank you!

from Roxanna Roberts to everyone: 1:54 PM  
Thank You !! . . .

from Bibi Oung to everyone: 1:54 PM  
Thank you.